

## **ABSTRACT**

An optimizing apparatus (300a) for a mounter equipped with a line gang pickup head which picks up a plurality of components and mounts them on a board comprises: a nozzle set determination unit (305a) for determining a nozzle set which reduces a mounting time in view of the number of times interchanging pickup nozzles and a total task number necessary for mounting the plural components; a nozzle pattern determination unit (305b) for determining an optimal nozzle pattern as well as an arrangement of pickup nozzles (nozzle arrangement) at a nozzle station (119), based on the nozzle set determined by the nozzle set determination unit (305a); and Z-axis arrangement/mounting order optimization unit (305c) for determining an array order of component feeders and a mounting order of components while maintaining the determined nozzle set and nozzle pattern.

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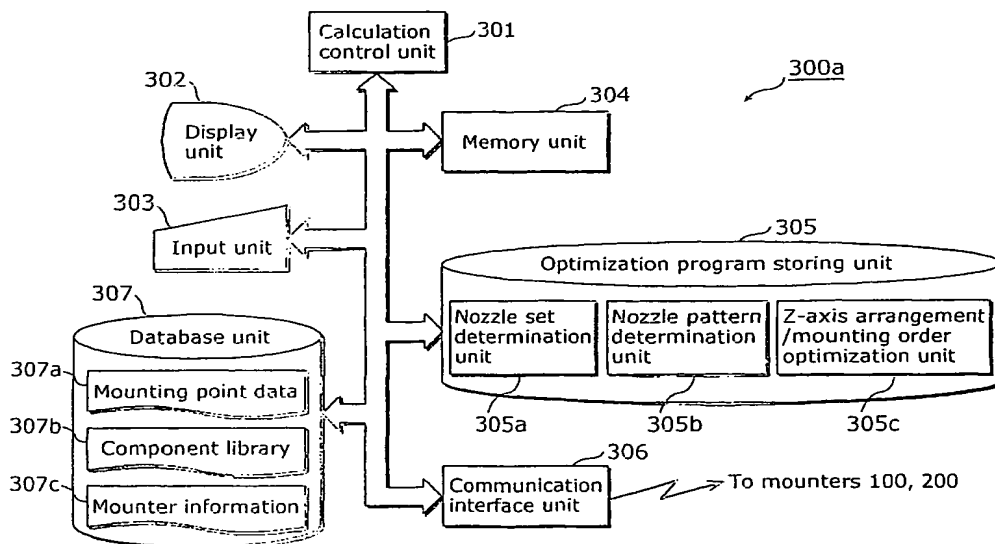
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(54) Title: METHOD FOR OPTIMIZATION OF AN ORDER OF COMPONENT MOUNTING APPARATUS USING THE SAME, AND MOUNTER



(57) Abstract: An optimizing apparatus (300a) for a mounter equipped with a line gang pickup head which picks up a plurality of components and mounts them on a board comprises: a nozzle set determination unit (305a) for determining a nozzle set which reduces a mounting time in view of the number of times interchanging pickup nozzles and a total task number necessary for mounting the plural components; a nozzle pattern determination unit (305b) for determining an optimal nozzle pattern as well as an arrangement of pickup nozzles (nozzle arrangement) at a nozzle station (119), based on the nozzle set determined by the nozzle set determination unit (305a); and Z-axis arrangement/mounting order optimization unit (305c) for determining an array order of component feeders and a mounting order of components while maintaining the determined nozzle set and nozzle pattern.